IN THE CLAIMS:

1 - 13. (Cancelled)

14.	(Currently amended)	A method for controlling flooding in a bridged
network ha	ving a bridge connected to	a plurality of networks, the method comprising:
proc	essing a packet having a c	lestination MAC address to determine whether a
mapping be	etween the destination MA	C address and a port exists;
——if no	mapping between the desi	ination MAC address and port exists, then until a
reply is rec	eived from a port associate	d with the destination MAC address, iteratively:
<u>.</u>	performing broadcast fl	ooding of packets for a first predetermined time
period; and	1	
	ceasing broadcast flood	ing of packets for a second predetermined time
period.	passing a packet to a t	iltering module, and indicating a MAC address
associated	with the packet to the filter	ing module;
:	determining whether the	e received MAC address exists in a table or needs
to be added	d as an entry to the table;	
	if the MAC address alre	ady exists in the table then incrementing a packet
count field	, the packet count field ass	ociated with the MAC address already existing in
the table ar	nd indicating how many pa	ckets have been sent to the MAC address;
	if a quiet flag associated	with the MAC address is not set to true within the
table and	a flooding timer associate	d with the MAC address has not expired, the
flooding tim	mer initially set to a first pr	redetermined value and decremented periodically,
then broade	casting the received packet	to a plurality of interfaces; and

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and a restart timer associated with the table has expired, the restart timer initially set to a second predetermined value and decremented periodically, then:

resetting the quiet flag in the table to false; and

setting a flooding timer to an initial value; and broadcasting the received packet to a plurality of interfaces.

15. (Currently amended) The method of claim 14, wherein said first predetermined time period value and said second predetermined time period is value are set by a network administrator.

16-17. (Cancelled)

- 18. (Currently amended) The method of claim 14, wherein, an entry is made in a filter the table if no mapping between the MAC address and a port exists, then until a reply is received from a port associated with the destination MAC address.
- 19. (Currently amended) The method of claim 18, wherein the entry is removed from the filter-table after a port associated with the destination MAC address replies to the broadcast flooding of packets.
- 20. (Currently amended) The method of claim 14, wherein an entry is made in the filter table indicating a number of packets that are directed at the destination MAC address.

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21. (Currently amended) The method of claim 20, wherein the entry indicating the number of packets directed at a destination address is used to determine which entry to delete from the filter table if the filter table becomes overpopulated with entries.

22. (Currentlyamended) A computer program product containing instructions which, when executed by a computer, controls flooding in a bridged network having a bridge connected to a plurality of networks, by:

processing a packet having a destination MAC address to determine whether a mapping between the destination MAC address and a port exists; if no mapping between the destination MAC address and port exists, then until a reply is received from a port associated with the destination MAC address, iteratively: performing broadcast flooding of packets for a first predetermined time period; and ceasing broadcast flooding of packets for a second predetermined time period. passing a packet to a filtering module, and indicating a MAC address associated with the packet to the filtering module; determining whether the received MAC address exists in a table or needs to be added as an entry to the table; if the MAC address already exists in the table then incrementing a packet count field, the packet count field associated with the MAC address already existing in the table and indicating how many packets have been sent to the MAC address; if a quiet flag associated with the MAC address is not set to true within the table and a flooding timer associated with the MAC address has not expired, the

flooding timer initially set to a first predetermined value and decremented periodically, then broadcasting the received packet to a plurality of interfaces; and

and a restart timer associated with the table has expired, the restart timer initially set to a second predetermined value and decremented periodically, then:

resetting the quiet flag in the table to false; and
setting a flooding timer to an initial value; and broadcasting the
received packet to a plurality of interfaces.

23. (Currently amended) The computer program product of claim 22, wherein said first predetermined time period value and said second predetermined time period is value are set by a network administrator.

24-25.(Cancelled)

- 26. (Currently amended) The computer program product of claim 22, further comprising instructions which, when executed by a computer, insert an entry in a filter table if no mapping between the destination MAC address and a port exists.
- 27. (Currently amended) The computer program product of claim 26, further comprising instructions which, when executed by a computer, remove the entry from the filter table after a port associated with the destination—MAC address replies to the broadcast flooding of packets.
- 28. (Currently amended) The computer program product of claim 22, further comprising instructions which, when executed by a computer, make an entry in

the filter table indicating a number of packets that are directed at the destination MAC address.

29. (Currently Amended) The method of claim 28, further comprising instructions which, when executed by a computer, examine the entry indicating the number of packets directed at a destination address to determine which entry to delete from the filter-table if the filter table becomes overpopulated with entries.

30. (Cancelled)